

## Biological environment

- ✓Primary production
- ✓Trophic interactions
- ✓Recruitment relationships
- ✓Age structure
- ✓Size structure
- ✓Life History
- ✓Refuge Habitat
- ✓**Ecotoxicology**
  - contaminant biomagnification

## Framework

- ✓Spatially explicit structure

## Fisheries

- ✓Multiple sectors
- ✓Gears
- ✓Seasons

## Physical environment

- ✓Geology
- ✓Chemistry
- ✓Circulation & currents
- ✓Temperature
- ✓Salinity
- ✓Water clarity
- ✓Climate variability

## Nutrient Inputs

- ✓Currency is Nitrogen
- ✓Oxygen
- ✓Silica
- ✓3 forms of detritus
- ✓Bacteria-mediated recycling

